

1           What is claimed is:

2       1.   An electronic endoscope apparatus, including:

3           a first electronic endoscope having a first imaging  
4       device;

5           a second electronic endoscope having a second imaging  
6       device of which pixel density is different from that of said  
7       first image device, and having a second drive pulse generation  
8       circuit for generating drive pulses to drive the second imaging  
9       device; and

10          a processor unit for connecting said first or second  
11       electronic endoscope,

12          wherein the processor unit comprises:

13          a first drive pulse generation circuit for generating  
14       drive pulses to drive said first imaging device;

15          a selection circuit for activating the second drive pulse  
16       generation circuit when said second electronic endoscope is  
17       connected;

18          a synchronization circuit for forming synchronizing  
19       signals which are synchronous with the drive pulse of said  
20       second drive pulse generation circuit; and

21          a signal processing circuit for performing image  
22       processing on the output signal from said first imaging device  
23       when said first electronic endoscope is connected, and for  
24       performing image processing on the output signal from the  
25       second imaging device by inputting the synchronizing signals

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1 from said synchronization circuit when the second electronic  
2 endoscope is connected.

3

4 2. The electronic endoscope apparatus according to claim  
5 1,

6 wherein a determination circuit for automatically  
7 determining the type of the electronic endoscope which is  
8 connected to said processor unit is provided, and said  
9 selection circuit and synchronization circuit are operated  
10 based on the determination of the determination circuit.

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